

REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 9/12/95	3. REPORT TYPE AND DATES COVERED Final Technical Report, May 1992 - April 1995
4. TITLE AND SUBTITLE Spectroscopy and Dynamics of vibrationally Excited Molecules		5. FUNDING NUMBERS F49620-92-J0213 3484-S2 AASERT-FY91
6. AUTHOR(S) F. Fleming Crim		
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) University of Wisconsin 750 University Avenue Madison, WI 53706-1490		8. PERFORMING ORGANIZATION AFOSR-TR-95 3585
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) AFOSR/NCNL Building 410, Bolling AFB DC 20332-6448 Dr. Berman.		10. SPONSORING/MONITORING AGENCY REPORT NUMBER F49620-92-J-0073
11. SUPPLEMENTARY NOTES		
12a. DISTRIBUTION/AVAILABILITY STATEMENT APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED.		12b. DISTRIBUTION CODE DTIC SELECTED OCT 13 1995 F
13. ABSTRACT (Maximum 200 words) This report describes the progress of students supported by an AASERT award.		
19951011 154		
14. SUBJECT TERMS		15. NUMBER OF PAGES 1
		16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE UNCLASSIFIED	19. SECURITY CLASSIFICATION OF ABSTRACT UNCLASSIFIED
		20. LIMITATION OF ABSTRACT

Final Technical Report - AASERT Award

F49620-92-J-0073

May, 1992 - April, 1995

Spectroscopy and Dynamics of vibrationally Excited Molecules

Students Supported and Progress

Martin J. Coffey

The AASERT award provide support for Marty during his first summer in graduate school and during a portion of his second year. The AASERT award also provided support for Marty during his third year in graduate school. During this time he completed the design and assembly of our new optical parametric oscillator and began initial characterization and testing. His grades remained good and he made normal progress toward his Ph.D.

Mark D. Fritz

The AASERT award provided partial support for Mark during his fifth year in graduate school. During this time he extended our collisional energy transfer studies, in collaboration with a post-doctoral associate, making measurements on relaxation in C₂H₂ containing four quanta of vibrational excitation. He also performed our first vibrational overtone excitation experiments on formaldehyde, providing excellent spectroscopy data that have already motivated calculations by a post-doctoral associate. He completed his Ph.D., and his work has led to another manuscript on vibrationally excited molecules

Donald E. Govoni

The AASERT award provided a small amount of support for Don during his final year in graduate school. He helped develop transient grating techniques that we hope to apply to our AFOSR sponsored projects. His participation in the AFOSR sponsored work was a minor component of his graduate study. His grades are good and he is making normal progress toward his Ph.D.

H. Laine Berghout

The AASERT award provided a small amount of support during his third year of graduate school. He contributed to computer interfacing and data analysis on the AFOSR sponsored project. His grades are good and he is making normal progress toward his Ph.D.

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